USACE GALVESTON DISTRICT DREDGING MEETING

Waterways Management Section
GIS Products and Services Overview

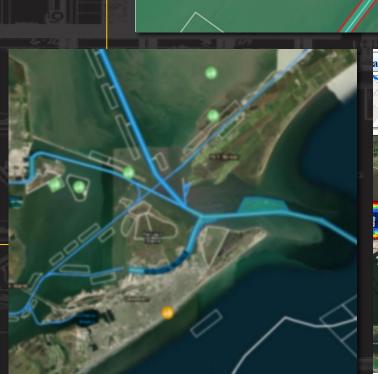
Brittany Tiemann
Acting Chief of WMS

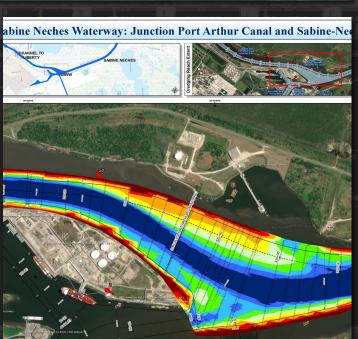
Brittany.L.Tiemann@usace.army.mil





US Army Corps of Engineers_®

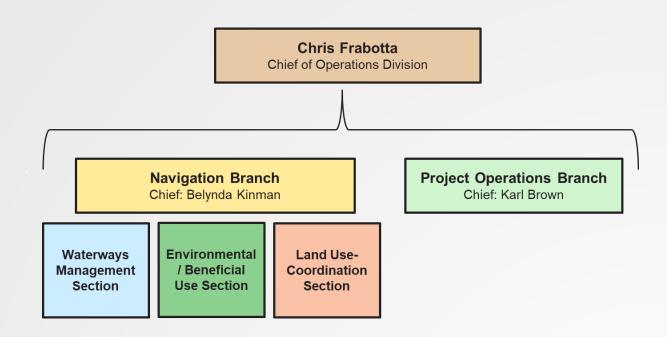






WATERWAYS MANAGEMENT SECTION

The Galveston District Waterways
Management Section (WMS) provides
Geographic Information Systems (GIS), and
Data Visualizations Services (DVS) support to
the Galveston District's Operations Division
while also being responsible for publishing
the hydrographic survey maps & data
through the USACE Enterprise eHydro
system.



WATERWAYS MANAGEMENT SECTION

National Datasets

National Channel Framework

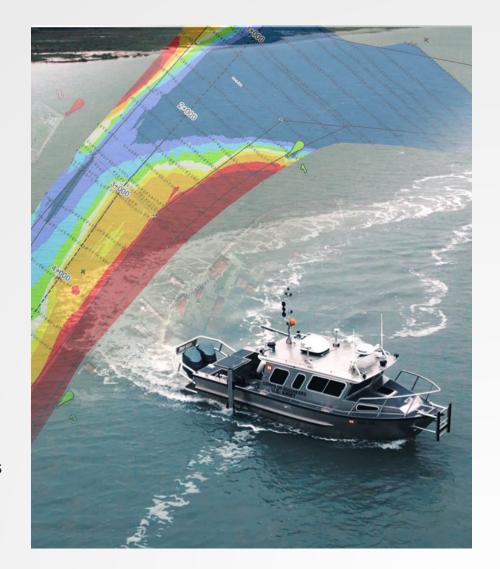
 The enterprise Geographic Information System (eGIS) geodatabase of high-and medium-tonnage Congressionally authorized navigation channels maintained by the US Army Corps of Engineers (USACE). It serves as the basis for the National Oceanic and Atmospheric Administration's (NOAA) paper and Electronic Navigation Charts (ENCs)

National Sediment Management Framework

 The National Sediment Management Framework (NSMF) is a USACE enterprise-level GIS layer of dredge material placement area (PA) and sediment borrow area boundaries.

eHydro Survey Data and Products

 The U.S. Army Corps of Engineers developed eHydro to provide enterprise performance-based analyses and budgeting for coastal navigation channels through geospatial data to be used for, uniform method of data dissemination and comparison of latest conditions on coastal navigation channels.



WEB GIS PRODUCTS DEMONSTRATION

Operations Dashboard

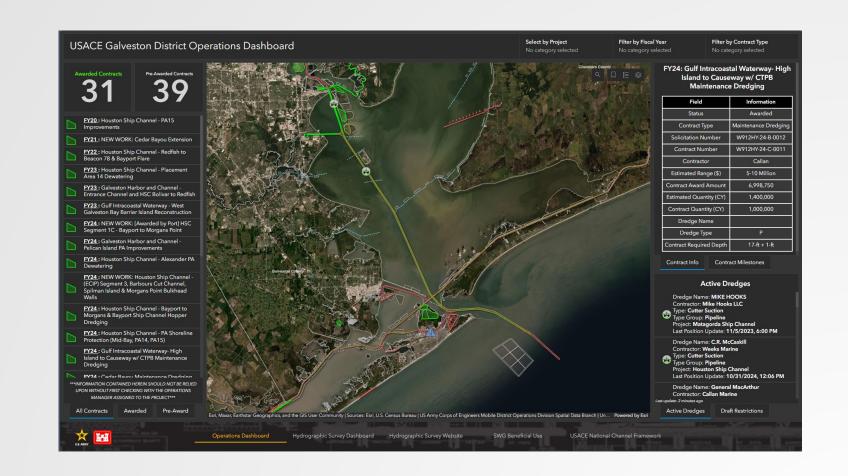
Central Place for all USACE SWG Operations Division Web Products

https://www.swg.usace.army.mil/Missions/Navigation/Navigation-Projects-Contracts/

OPERATIONS DASHBOARD

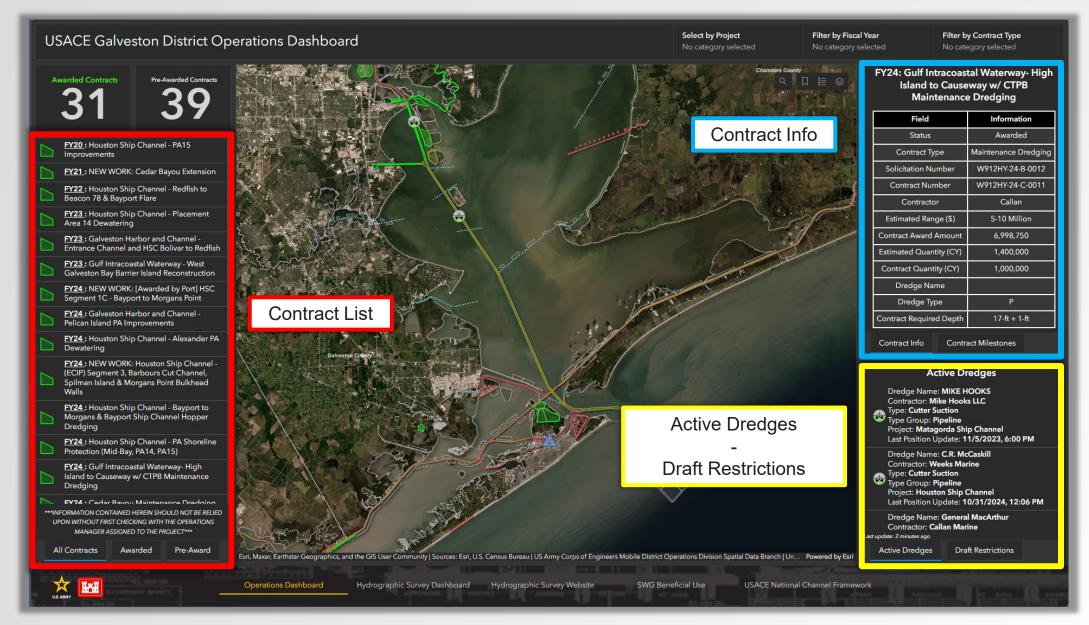
The Operations Dashboard provides location-aware data visualization and analytics for a real-time operational view of the SWG Navigation program for leadership, Operations Managers, partners and stakeholders.

- Contract information updated daily
- Dredge Locations updated nearreal time
- Draft Restrictions updated as necessary



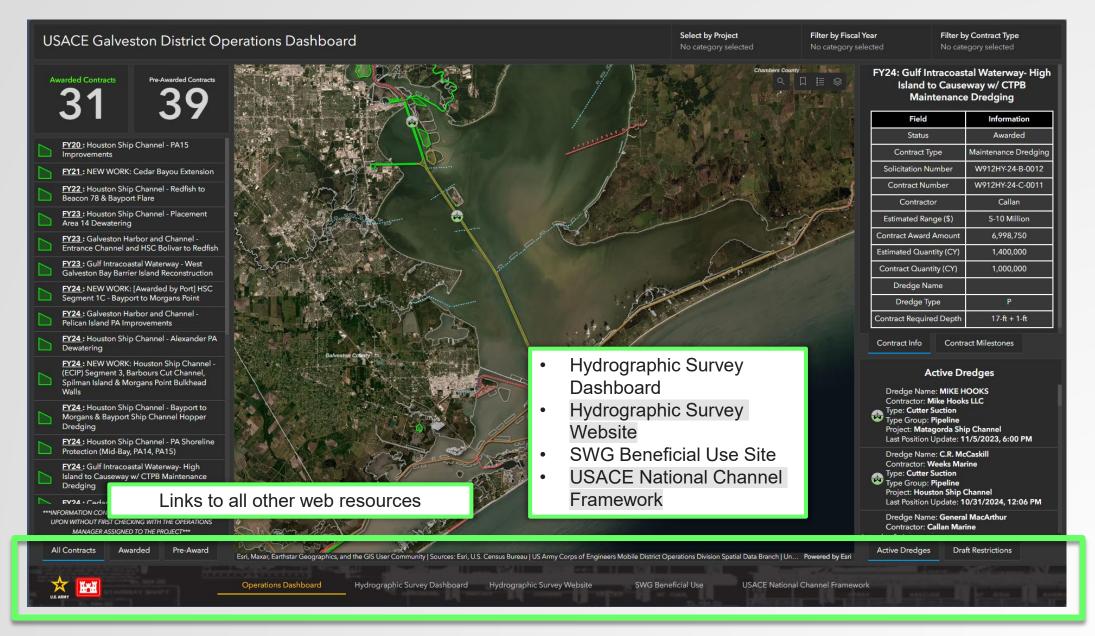


OPERATIONS DASHBOARD





OPERATIONS DASHBOARD

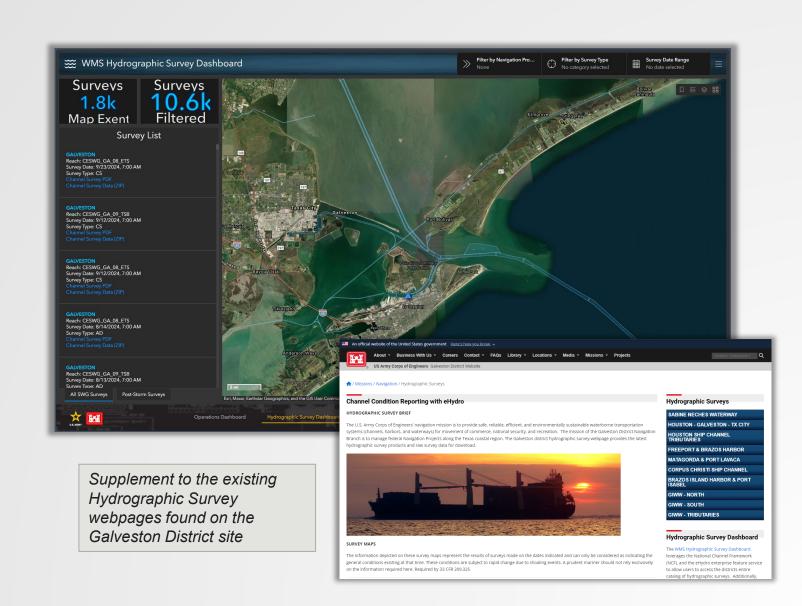


HYDROGRAPHIC SURVEY DASHBOARD

Leverages the National Channel Framework (NCF), and the eHydro enterprise data to give access to the districts' entire catalog of hydrographic surveys

Utilized as an emergency management tool for communicating information during a Navigation Restoration event

- Port Status
- Survey Schedule
- Survey Progress
- Draft Restrictions
- Other obstructions as required

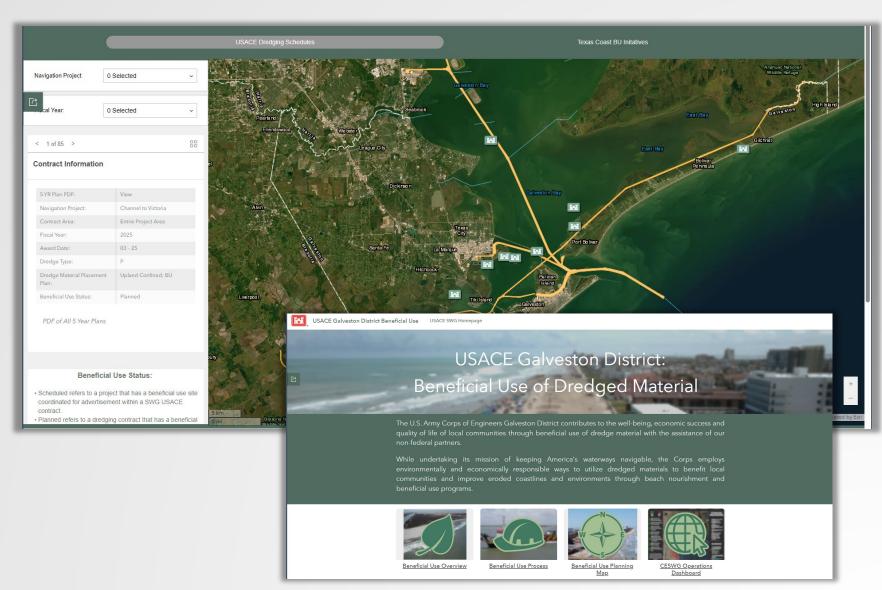


BENEFICIAL USE HUB SITE

The SWG Beneficial Use (BU) site provides a platform for stakeholders to access SWG Operation's ongoing 5-year dredging plans and visualize contracts/plans on a web map

Hub Site also provides:

- Overview of what Beneficial Use is + key USACE documents
- Information on the Beneficial Use Process



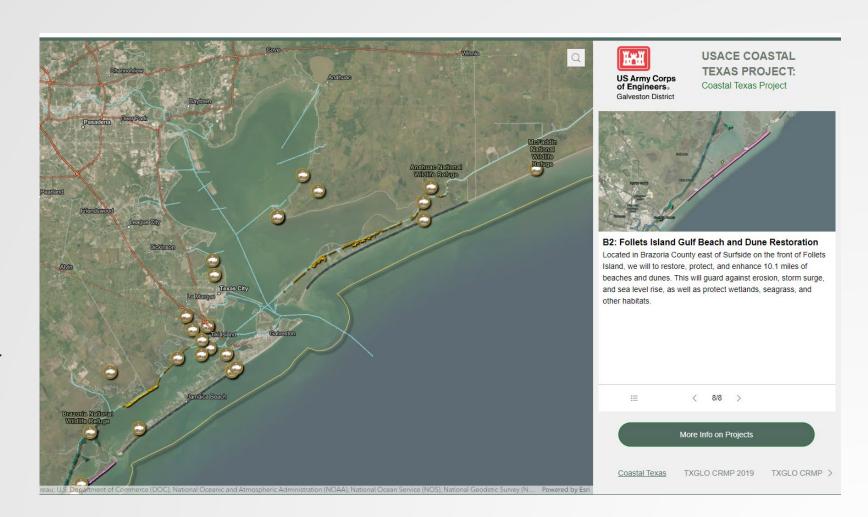
BENEFICIAL USE HUB SITE

Also showcases Texas Coast BU Initiatives: Past (USACE) & proposed projects

- Texas GLO Coastal Resiliency Master Plan Projects,
- USACE Coastal Texas

Future: USACE SWG Channel Sediment Data

- Available as a GIS Point layer or table for reference & download
- Data from 2005 Present
- Grain size and sand, silt, and clay percentage

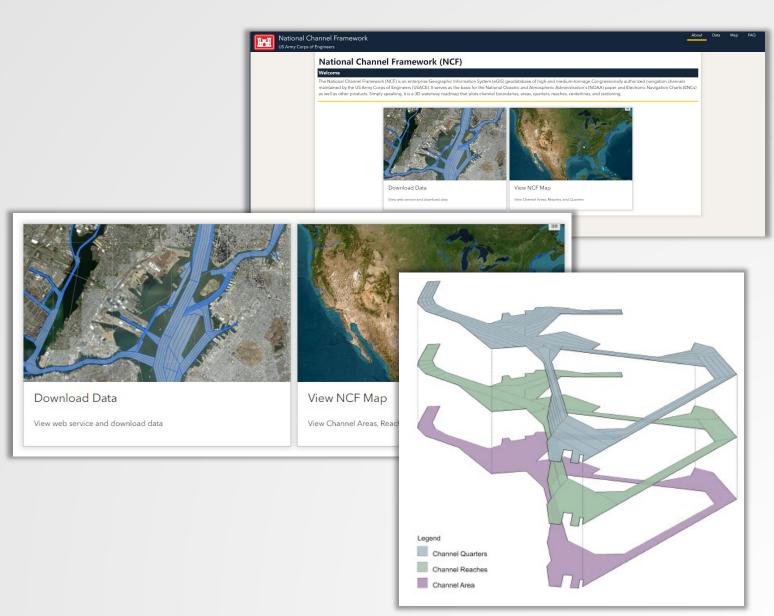


NATIONAL CHANNEL FRAMEWORK (NCF)

Recently included the link to the USACE National Channel Framework site to make it easier to locate and download the NCF.

Downloads Available:

- Channel Lines
 - Centerline
 - Toe line
 - Station Line
- Channel Area
- Channel Reaches
- Channel Quarters



WEB PRODUCTS; SUPPORT

Questions, Assistance, Suggestions for improvements? Please contact us at either:

- Brittany.L.Tiemann@usace.army.mil
- ceswg-odn-waterways@usace.army.mil

ston District Operations Dashboard

Select by Project
No category selected

Pre-Awarded Contract

39

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